

MATHEMATICS N3 / INTRODUCTION TO ENGINEERING MATHEMATICS

(14 MARKS)

QUESTION 1

1.1 Factorise the following expressions as far as possible in prime factors:

1.1.1 $x^2(p - q) + 3x(q - p) - 18(p - q)$ (4)

1.1.2 $5(x + 1)^2 - 17(x + 1) + 6$ (3)

1.2 Simplify the following algebraic fractions:

1.2.1
$$\frac{rp^2 - rq^2}{p^2 - 2pq + q^2} \div \frac{rp^2 - rp + rpq - rq}{p^2 - pq - p + q}$$
 (4)

1.3 Prove that $2x - 6$ is a factor of $2x^3 - 6x^2 + 4x - 12$ (3)

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